CH 222 Sample Quiz #4 Name: Lab Section:		Lab Section:
Be sure to show all work, use the correct number of significant figures, circle final answers and use correct units in all problems.		
1.	Ammonia (NH <sub>3</sub> ) is synthesized through the combination of hydrogen and n reacted to create ammonia at 3.00 atm in a 2.50 L flask at 100. °C? <i>Hint:</i> wri	nitrogen gases. What mass of nitrogen gas must be ite a balanced equation! (6 pts)
2.	Calculate the density (g/L) of gaseous phosphorus pentachloride at STP to the	aree significant figures. (5 pts)
3.	What volume of O <sub>2</sub> , measured at 44.3 °C and 766 mm Hg, will be produced 2 NaClO <sub>3</sub> (s) → 2 NaCl(s) + 3 O <sub>2</sub> (g)	by the decomposition of 4.27 g NaClO <sub>3</sub> ? (5 points)